

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Claims 1-15 (Cancelled)

16. (Currently Amended) The fixture according to ~~claim 14~~ claim 39, wherein said anchoring portion includes a screw-threaded part which functions to anchor the fixture when screwed into bone material and wherein said flared part has a rotationally symmetrical outer contour around the center axis defined by said threaded part.

Claims 17-18 (Cancelled)

19. (Currently Amended) The fixture according to ~~claim 17~~ claim 39, wherein said truncated cone has a cone angle of 5°-12°.

Claim 20 (Cancelled)

21. (Currently Amended) The fixture according to ~~claim 17~~ claim 39, wherein said truncated cone has a cone angle of 7°-9°.

Claims 22-29 (Cancelled)

30. (Currently Amended) The fixture according to ~~claim 25~~ claim 39, wherein said slot angle α is 20° - 40° , at the axially and radially outer end of respective slots.

31. (Currently Amended) The fixture according to ~~claim 27~~ claim 41, wherein said slot angle α is 20° - 40° , at the axially and radially outer end of respective slots.

Claim 32 (Cancelled)

33. (Currently Amended) The fixture according to ~~claim 25~~ claim 39, wherein said slot angle α is 27° - 33° , at the axially and radially outer end of respective slots.

34. (Currently Amended) The fixture according to ~~claim 27~~ claim 41, wherein said slot angle α is 27° - 33° , at the axially and radially outer end of respective slots.

35. (Currently Amended) The fixture according to ~~claim 14~~ claim 39, wherein said outer wall has a thickness of 0.3-1.0 mm.

36. (Currently Amended) The fixture according to ~~claim 14~~ claim 39, wherein said outer wall has a thickness of 0.5-0.7 mm.

37. (Currently Amended) The fixture according to claim 13, wherein said fixture is made of titanium.

Claim 38 (Cancelled)

39. (New) A fixture for anchorage in bone tissue, said fixture comprising:

a fixture anchoring portion and an application portion shaped and configured for connection with a prosthesis, wherein the application portion has an outer end and an end connected with said anchoring portion, said application portion being formed with a flared part whose outer dimensions widen from said end connected to said anchoring portion in a direction toward the outer end of said application portion, wherein said flared part is elastically resilient transversely to the longitudinal direction of said fixture;

wherein said flared part has the form of a truncated cone and is formed by an outer wall that surrounds a cavity which is open toward the outer end of said application portion;

wherein said outer wall is provided with through-penetrating slots which extend from said outer end of said application portion and which connect the cavity with the outside of said outer wall, wherein each said slot defines an angle α with the radial direction of the truncated cone; and

wherein said slots slope rearwardly from the cavity to the outside of said outer wall in relation to the direction in which said fixture is rotated when screwing in said fixture, this direction being defined by said screw-threaded part.

40. (New) A fixture for anchorage in bone tissue, said fixture comprising:

a fixture anchoring portion and an application portion shaped and configured for connection with a prosthesis, wherein the application portion has an outer end and an end connected with said anchoring portion, said application portion being formed with a flared part whose outer dimensions widen from said end connected to said anchoring portion in a direction toward the outer end of said application portion, wherein said flared part is elastically resilient transversely to the longitudinal direction of said fixture;

wherein said flared part has the form of a truncated cone having a cone angle of 5°-12°, said flared part being formed by an outer wall that surrounds a cavity which is open toward the outer end of said application portion;

wherein said outer wall is provided with through-penetrating slots which extend from said outer end of said application portion and which connect the cavity with the outside of said outer wall, wherein each said slot defines an angle α with the radial direction of the truncated cone; and

wherein said slots slope rearwardly from the cavity to the outside of said outer wall in relation to the direction in which said fixture is rotated when screwing in said fixture, this direction being defined by said screw-threaded part.

41. (New) A fixture for anchorage in bone tissue, said fixture comprising:

a fixture anchoring portion and an application portion shaped and configured for connection with a prosthesis, wherein the application portion has an outer end and an end connected with said anchoring portion, said application portion being formed with a flared part whose outer dimensions widen from said end connected to said anchoring portion in a direction toward the outer end of said application portion, wherein said flared part is elastically resilient transversely to the longitudinal direction of said fixture;

wherein said flared part has the form of a truncated cone and is formed by an outer wall that surrounds a cavity which is open toward the outer end of said application portion;

wherein said outer wall is provided with through-penetrating slots which extend from said outer end of said application portion and which connect the cavity with the outside of said outer wall, wherein each said slot defines an angle α with the radial direction of the truncated cone; and

wherein said slots slope forwardly from the cavity to the outside of said outer wall in relation to the direction in which the fixture is turned when screwing in the fixture, said direction being defined by the screw-threaded part.

42. (New) A fixture for anchorage in bone tissue, said fixture comprising:

a fixture anchoring portion and an application portion shaped and configured for connection with a prosthesis, wherein the application portion has an outer end and an end

connected with said anchoring portion, said application portion being formed with a flared part whose outer dimensions widen from said end connected to said anchoring portion in a direction toward the outer end of said application portion, wherein said flared part is elastically resilient transversely to the longitudinal direction of said fixture;

wherein said flared part has the form of a truncated cone and having a cone angle of 5° - 12° , said flared part being formed by an outer wall that surrounds a cavity which is open toward the outer end of said application portion;

wherein said outer wall is provided with through-penetrating slots which extend from said outer end of said application portion and which connect the cavity with the outside of said outer wall, wherein each said slot defines an angle α with the radial direction of the truncated cone; and

wherein said slots slope forwardly from the cavity to the outside of said outer wall in relation to the direction in which the fixture is turned when screwing in the fixture, said direction being defined by the screw-threaded part.

43. (New) The use of a fixture for anchorage in bone tissue, said fixture comprising a fixture anchoring portion and an application portion shaped and configured for connection with a prosthesis, wherein the application portion has an outer end and an end connected with said anchoring portion, said application portion being formed with a flared part whose outer dimensions widen from said end connected to said anchoring portion in a direction toward the outer end of said application portion, wherein said flared part is elastically resilient transversely to the longitudinal direction of said fixture, the use comprising:

drilling a hole in the bone tissue; and
engaging said anchoring portion of the fixture in the hole in the bone tissue until
said flared part of the fixture substantially fills the open end of the hole in the bone tissue
and the transversely resilient part is compressed radially inwardly.